

ABSTRACT

A cooling fan (30) of a secondary battery (10) and a cooling fan (40) of a DC/DC converter (20) are arranged in parallel to share the same air discharge path (80). A temperature sensor (12) on an air intake side and a temperature sensor (14) on an air discharge side are attached to the secondary battery (10). When the cooling fan (30) is in failure, a temperature deviation between the air intake side and the air discharge side in the secondary battery (10) increases because a backflow component (95) of a discharge air (90) is generated through the discharge path (80) as the cooling fan (40) operates. Based on this phenomenon, when operation commands for both of the cooling fans (30, 40) are issued, the control circuit (50) senses a failure in the cooling fan (30) by monitoring the temperature difference between temperatures (Tb1, Tb2) detected by the temperature sensors (12, 14). Failure detection is thereby possible without providing a sensor at each of the cooling fans.